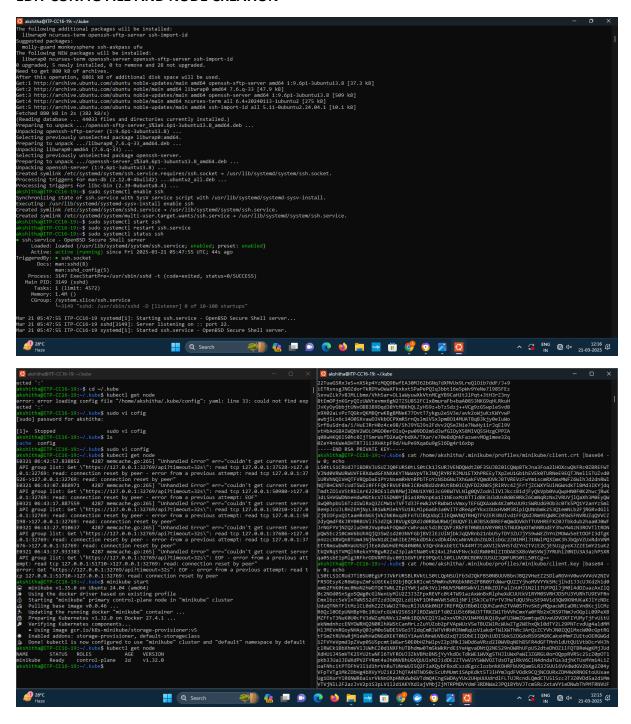
FINAL PROJECT

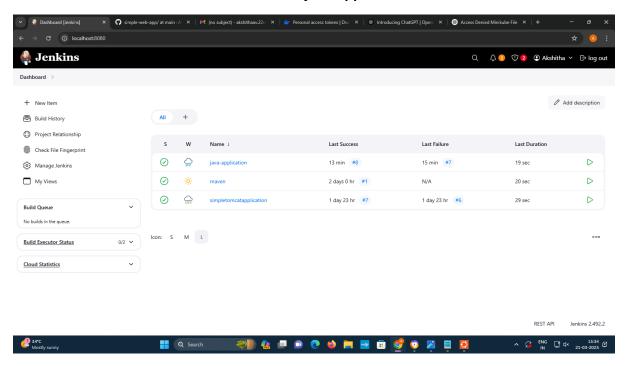
DAY-06

JAVA-APPLICATION DEPLOYMENT IN MINIKUBE

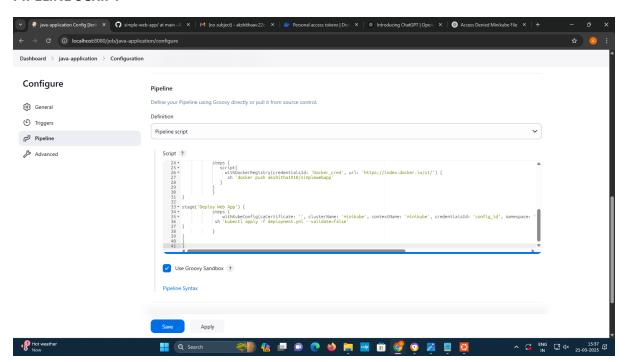
EDIT CONFIG FILE AND NODE CREATION



CREATION OF A PIPELINE PROJECT NAMED "java-application"



PIPELINE SCRIPT



PIPELINE SCRIPT CODE

```
pipeline {
  agent any
  stages {
    stage('scm') {
      steps {
    git branch: 'main', url: 'https://github.com/Akshi1910/simple-web-app.git'
    }
    stage('build') {
      steps {
        sh "mvn clean"
        sh "mvn install"
}
}
stage('build to images') {
      steps {
        script{
          sh 'docker build -t akshitha1910/simplewebapp .'
        }
  }
}
stage('push to hub') {
      steps {
        script{
         withDockerRegistry(credentialsId: 'Docker_cred', url: 'https://index.docker.io/v1/') {
          sh 'docker push akshitha1910/simplewebapp'
        }
      }
      }
}
stage('Deploy Web App') {
         withKubeConfig(caCertificate: ", clusterName: 'minikube', contextName: 'minikube',
credentialsId: 'config_id', namespace: '', restrictKubeConfigAccess: false, serverUrl:
'https://192.168.39.226:8443') {
       sh 'kubectl apply -f deployment.yml --validate=false'
}
      }
}
```

```
}
}
DEPLOYMENT FILE
deployment.yml
apiVersion: apps/v1
kind: Deployment
metadata:
 name: webnginx2
 labels:
  name: webnginx2
spec:
 replicas: 1
 selector:
  matchLabels:
   apptype: web-backend
 strategy:
  type: RollingUpdate
 template:
  metadata:
   labels:
    apptype: web-backend
```

containers:

spec:

- name: webnginx2

image: akshitha1910/simplewebapp:latest

ports:

- containerPort: 7070

apiVersion: v1

kind: Service

metadata:

name: my-service

labels:

app: my-service

type: backend-app

spec:

type: NodePort

ports:

- targetPort: 8080

port: 7070

nodePort: 30002

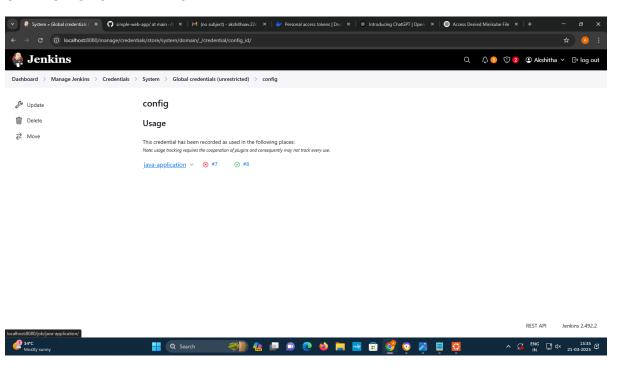
selector:

apptype: web-backend

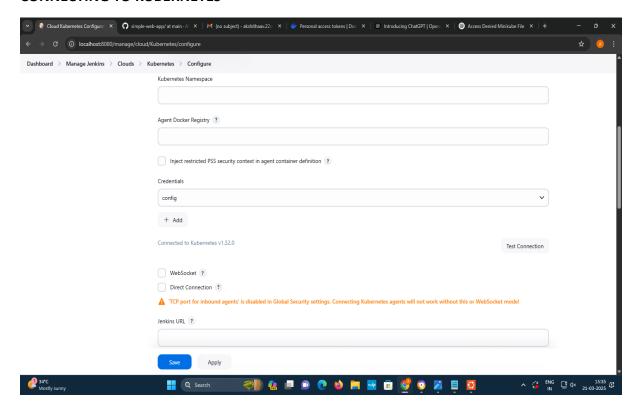
deployment.yml file should be present in the project:

gitlink: https://github.com/Akshi1910/simple-web-app

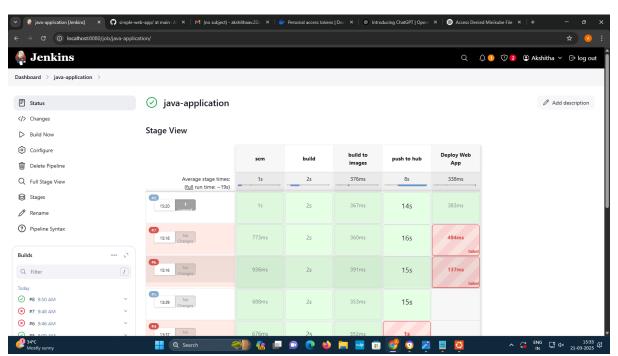
CREATION OF CREDENTIALS

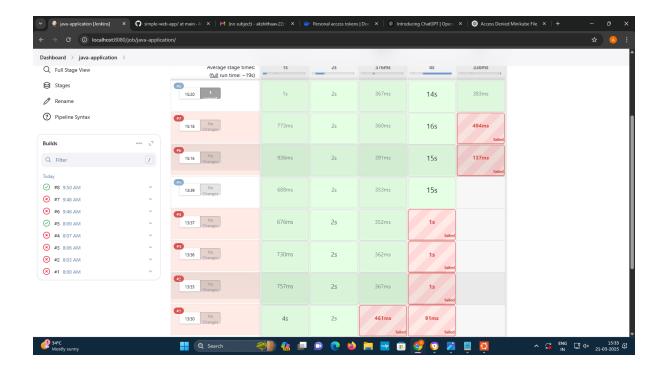


CONNECTING TO KUBERNETES

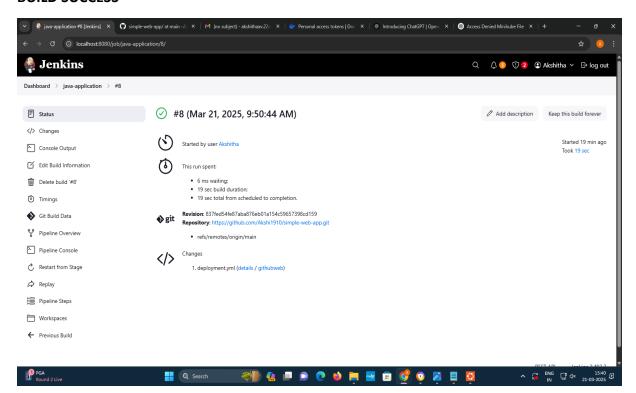


STAGE VIEW OF BUILD





BUILD SUCCESS



DEPLOYMENT FROM MINIKUBE(TERMINAL)

Commands:

minikube start

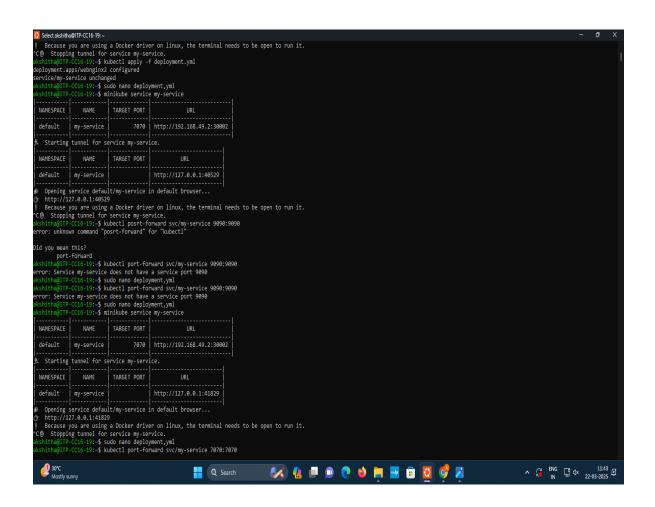
sudo nano deployment.yml

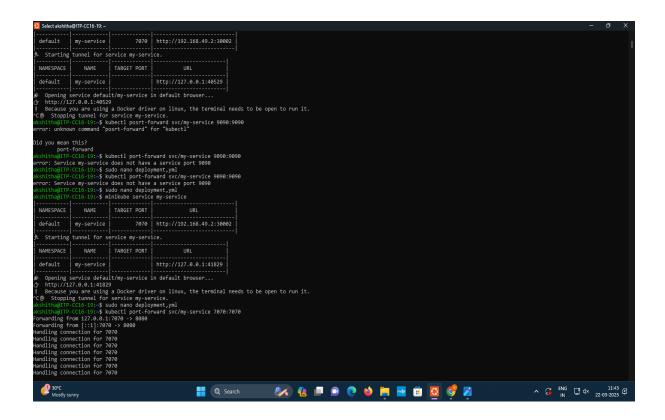
kubectl apply -f deployment.yml

kubectl get pod

minikube service my-service

kubectl port-forward svc/my-service 7070:7070





On browser run https://127.0.0.1:7070/maven-web-app



Hello World!

